## **CLAIMS**

What is claimed is:

|                  | What is claimed is.   |
|------------------|---|
| 1 2              | 1. (currently amended) A method for fabricating a write pole tip for perpendicular recording, comprising:   |
| 3                | A) fabricating a P1 write pole, coils and a P2 write pole flux shaping layer;   |
| 4                | B) depositing a P3 <u>write pole</u> layer on said P2 <u>write pole</u> flux shaping layer;   |
| 5                | C) depositing a CMP stop layer on said P3 write pole layer;   |
| 6                | D) depositing at least one sacrificial layer on said CMP stop layer;  |
| 7                | E) shaping said P3 write pole layer into P3 write pole tip;   |
| 8                | F) removing said at least one sacrificial layer to leave said P3 <u>write</u> pole tip;   |
| 9                | and   |
| 10               | G) encapsulating said P3 <u>write</u> pole tip in a protective layer.   |
| 1<br>2<br>3<br>4 | 2. (currently amended) The method of claim 1, wherein: said P3 write pole layer material of B) is a material chosen from the group consisting of CoFe, CoFeN, NiFe, CoFe alloys, CoFeN alloys, NiFe alloys, Cr, Al <sub>2</sub> O <sub>3</sub> , and Ru.  |
| 1<br>2<br>3<br>4 | 3. (original) The method of claim 1, wherein: said CMP stop layer material of C) is a material chosen from the group consisting of Al <sub>2</sub> O <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , SiO <sub>x</sub> N <sub>y</sub> , Al <sub>2</sub> O <sub>3</sub> alloys, Ta <sub>2</sub> O <sub>5</sub> alloys, SiO <sub>x</sub> N <sub>y</sub> alloys and insulation materials. |
| 1 2              | 4. (original) The method of claim 1, wherein: said at least one sacrificial layer of D) comprises a sacrificial layer PS of   |
| 3 4              | sacrificial material chosen from the group consisting of NiFe, NiP and plated materials with high ion milling resistances.  |
| 1                | 5. (original) The method of claim 4, wherein:   |
| 2 3              | said at least one sacrificial layer of D) further comprises a seed layer of sacrificial material.   |
| 1                | 6. (previously presented) The method of claim 5, wherein:   |
| 2 3              | said at least one sacrificial layer is formed by creating a cavity surrounded by photo-resist material, said cavity then being filled with sacrificial material.  |
| 1 2              | 7. (currently amended) The method of claim 1, wherein: said shaping of said P3 write pole layer of E) is done by ion milling.   |

8. (currently amended) The method of claim 7, wherein:

| 2<br>3<br>4      | said ion milling is done to first produce a straight-sided structure, as said at least one sacrificial layer masks said P3 <u>write</u> pole tip, and then said CMP stop layer acts as a secondary mask as ion milling is used to bevel the sides of said P3 <u>write</u> pole tip.          |
|------------------|--|
| 1<br>2<br>3      | 9. (currently amended) The method of claim 8, wherein: said beveled sides of said P3 write pole tip are beveled to an angle with the range of 8 degrees to 15 degrees.   |
| 1 2              | 10. (currently amended) The method of claim 1, wherein: said finished P3 write pole tip has a width less than 200 nm.  |
| 1<br>2<br>3      | 11. (withdrawn) The method of claim 1, wherein: said removing of said at least one sacrificial layer of F) further comprises removing said CMP stop layer.   |
| 1<br>2<br>3      | 12. (withdrawn) The method of claim 11, wherein: said removing of said CMP stop layer comprises using Chemical Mechanical Polishing.   |
| 1<br>2<br>3<br>4 | 13. (original) The method of claim 1, wherein: said encapsulating material of G) comprises material matching that of said CMP stop layer.  |
| 1<br>2<br>3<br>4 | 14. (withdrawn) The method of claim 1, wherein: said at least one sacrificial layer of D) comprises magnetic material; and said removing said at least one sacrificial layer of F) requires that all of said magnetic material of said at least one sacrificial layer be completely removed. |